Experimental Design

Stream Tables- Earth’s Forces – Erosion and Deposition

Inquiry Standard: Student will use the scientific method to develop a question, design and conduct an investigation. Student will communicate findings as well.

Content Standard: Student will explain how erosion can change the Earth’s landscape abruptly and over time.

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|  | Standard | Advanced | Proficient | Partially Proficient | Below Proficiency |
| Scientific Question | Inquiry | A experimental question, in the form of a question, specific to what is being tested in the lab | Completes 2 of the 3 requirements | Completes 1 of the requirements, lack vocabulary | No question submitted |
| Variables | Inquiry | All 3 variables specifically identified – independent, dependent, controlled | Only 2 types identified or 3 not completely | Only 1 completely identified | Missing variables section |
| Materials | Inquiry | Organized, thorough list for all materials used | Missing more than 2 materials | Missing more than 3 materials | No materials section submitted |
| Procedures | Inquiry | Logical, Numbered steps, begin with a verb, clear for every step | Missing some steps, mostly thorough | Many steps missing, would be hard to duplicate this lab | No procedures submitted or missing too many steps |
| Images or Video   * Set up of lab * Before & After for each trial. | Content/Inquiry | Accurate illustrations are submitted for each trial of the lab. Illustrations are carefully drawn in sharp pencil, colored with colored pencil and labeled clearly. | Missing 1-2parts, labels or lacks some details | Many details, parts and labels missing | No illustrations submitted or messy, no labels, no details |
| Conclusion | Content  *Word Bank:*  *weathering, erosion, deposition, sediment, mountain, delta, canyon, slope, rainfall, jetty* | Using ALL the vocabulary, answer your question.  Were there sources of errors?  What is your explanation of erosion and its effect on the Earth’s surfaces? | Used most of the vocabulary to discuss results. | Used a few of the vocabulary words to discuss results | Little or no vocabulary used, did not answer the prompt questions given |